

2024-2025 Course Guide

Southern Boone High School

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The Course Guide has been designed through a cooperative effort of the professional staff of the Southern Boone High School. Its purpose is to provide secondary school students with an understanding of the courses available and to assist with intentional planning for coursework. Students are encouraged to discuss their high school plans with parents, teachers and counselors. Plans should be made on the basis of required classes, past performance, and other applicable information. Students should plan carefully, stay in school, and use the talents they have to the fullest. Counselors and other professional staff members are available to help.

Please know that course availability is based on student interest and staff availability each year, which means that unfortunately sometimes courses may not be offered although they are stated in this course guide.

General Requirements

In addition to the program of study, a student must pass proficiency exams concerning the Missouri and United States Constitutions. Beginning with the class of 2021, students must also pass a proficiency exam in civics. Participation in CPR training is required for graduation as well. Students are required to successfully complete specifically prescribed courses: English I, II, III and IV, Western Civilization, Government and American History, Physics 9 and Biology, Health and Personal Finance. Additional graduation requirement information can be found in “Graduation Requirements for Students in Missouri Public Schools” issued by Missouri DESE: <https://dese.mo.gov/>.

DEPARTMENT	CREDIT HOURS	REQUIRED COURSES/TESTING/HELPFUL INFORMATION
English	4	English I, II, III, and IV & English EOC
Social Studies	3	Western Civilization, American History, Government & Gov't EOC
Mathematics	3	Algebra I EOC
Science	3	Physics & Biology EOC
Fine Arts	1	
Practical Arts	1	*Personal Finance counts as .5 of a practical art
Personal Finance	.5	Personal Finance
Physical Education	1	
Health	.5	Health
Electives	7	
Total Credits Needed	24	

TABLE OF CONTENTS

<u>Career Planning & Self Assessments</u>	3
<u>Language Arts (English)</u>	4
<u>Mathematics</u>	7
<u>Science</u>	9
<u>Social Studies</u>	12
<u>Foreign Language</u>	15
<u>Fine Arts</u>	18
<u>Art</u>	18
<u>Music</u>	19
<u>Health & Physical Education</u>	22
<u>Practical Arts</u>	23
<u>Family and Consumer Sciences</u>	23
<u>Agriculture</u>	25
<u>Business and Computers</u>	28
<u>Special Courses</u>	30
<u>Online Dual Credit</u>	30
<u>Nichols Career Center</u>	31

Career Planning & Self Assessments

The visual is a map of the 'Career Clusters' and related occupations. This is an excellent way to understand how curriculum relates to career interest areas. Every student at Southern Boone has access to career-related materials like this diagram and more through Missouri Connections! We strongly recommend students access Missouri Connections to research career areas and take self surveys to learn more about themselves. To access Missouri Connections, follow these instructions:

1. Log into clever.com
2. In the upper right corner: 'Log in as a student'
3. Search for and select 'Southern Boone High School'
4. Use your school log-in and password to log in (do NOT reset password)
5. Click the Missouri Connections icon
6. You will see a green banner: click on 'Self-Surveys'
7. Complete the 'Interest Profiler' and 'Career Cluster Inventory' surveys
8. Find your results and have fun researching!



2024-2025 COURSE DESCRIPTIONS

****Language Arts****

English I

Grade level: 9 (required)

Credit: 1.0

Focus on how the elements of literature (plot, character, setting, point of view and theme) work together to construct meaning in different kinds of texts, including short story, myth, novel and play. Study of how informational works use text structures to shape information for different audiences and purposes.

Writing competencies include main idea, organization and development, with selection and integration of appropriate textual quotations. Extensive reading and writing required.

English II

Grade level: 10 (required)

Credit: 1.0

Building off of the skills developed in English I, students will identify, examine, analyze, and evaluate elements of literature, author choices/meanings, literature techniques and text features in short stories, novels, non-fiction pieces, plays and poetry. Students will respond to various genres of literature through writing and small/whole group discussions and activities. Writing will focus on persuasive techniques, audience, structure and supporting main ideas. Extensive reading and writing required.

English III

Grade level: 11 (required)

Credit: 1.0

An examination of American writers from the time of the early Native Americans to the modern era. This course will enhance students' awareness of the relationship between historical events and literature.

Novels, short stories, plays, non-fiction selections and poetry will be used to support students' understanding of historical development. Various writing assignments will be composed to accompany the reading. Extensive reading and writing required.

DC American Literature

Grade level: 11 (will fulfill ENG III requirement)

Credit: 1.0

***Weighted Course**

Close reading and analysis of American literary texts from early through contemporary eras. Students will examine how American literature shapes American culture and that culture shapes our literature. Historical and popular materials, including magazines, cartoons, paintings, and film, provide context for literary interpretation. Can be taken for college credit through Moberly Area Community College for a total of 6 college credits. Course numbers at MACC are LAL120 and LAL121. **Students are responsible for fees and textbook(s).**

English IV

Grade level: 12 (required)

Credit: 1.0

English IV focuses on developing reading and writing skills used by adults in varied settings. Navigate challenging texts independently by recognizing patterns in reading and writing. Read texts such as current periodical non-fiction, canonical and current literature, and culturally significant texts. Use

intended reader and writing purpose to guide writing choices to be able to write concise, accurate, and understandable prose. Practice fair argument, including discerning the difference between responding and reacting to controversial topics, communicating with others who disagree with your stance, and analyzing the credibility of media sources.

DC College English

Grade level: 12 (will fulfill ENG IV requirement)

Credit: 1.0

***Weighted Course**

Must have a 3.25 GPA or higher, ACT English & Reading Score of 18, Accuplacer score of 250 or higher on English and Reading To enroll

College English focuses on writing and reading strategies for college coursework. Students practice common types of informative and argumentative writing; research methods, including database research; and reading techniques for academic prose, including professional journals. This weighted course is intended for students who plan to attend college soon after high school. Can be taken for college credit through Moberly Area Community College for a total of 6 college credits. Course numbers at MACC are LAL101 and LAL102. **Students are responsible for fees and textbook(s).**

DC Public Speaking through MACC (in seat, new 24-25 school year)

Grade level: 11-12

Credit: 0.5

Prerequisite: Eng I

This course studies the role of speaking in communication in both formal and informal situations. The course includes a study of the communication process, the role of the listener, methods of speech organization, informative and persuasive techniques, and effective delivery. Will be taken for college credit through Moberly Area Community College for a total of 3 college credits. Course numbers at MACC are SPK 101.

Taking your first dual credit course through MACC?

You must apply to MACC (Moberly Area Community College) to become a dual credit student! When applying, do NOT use your school email address and please apply during your high school registration time the semester prior to starting the dual credit course. Once you receive your 6 digit student ID number, please email this number to your school counselor. Apply here: [MACC Dual Credit Application](#)

You will make payments to MACC once the actual course begins. You will use the MACC portal (my.macc.edu), you will have access to this site once your enrollment has been accepted.

****Mathematics****

Introduction to Algebra

Grade level: 9

Credit: 1.0

This class will prepare and provide students with necessary algebraic skills to continue into Algebra I.

Algebra I

Grade level: 9-10

Credit: 1.0

Prerequisite: Incoming freshman will be recommended for this course or Intro to algebra according to iready scores, MAP scores, and/or current understanding of pre-algebra concepts.

Algebra I emphasizes the use of algebraic tools (graphical, numeric, and symbolic) to develop confidence and skills in solving or modeling real world problems.

Geometry

Grade level: 9-12

Credit: 1.0

Prerequisite: Algebra I

This course will provide a careful development of both inductive and deductive reasoning. While emphasizing the formal geometric topics of points, lines, planes, congruency, similarity, and characteristics of polygons and circles. This course will also make connections in geometry to everyday life experiences.

Algebra II

Grade level: 9-12

Credit: 1.0

Prerequisite: Algebra I and Geometry; B+ or better in Algebra I and teacher recommendation to dual enroll in Geometry and Algebra II

This course will review Algebra I skills and extend their concepts. More advanced work with quadratic functions, polynomials, logarithms, and algebraic fractions will be studied.

Math Analysis

Grade level: 10-12

Credit: 1.0

Prerequisite: Algebra II

***Weighted Course**

This course consists of general topics for pre-calculus followed by an extensive study of trigonometry. Some of the topics covered are: matrices, rational function graphs, the unit circle, trigonometric equations and identities, and Conic Sections and other real world applications.

DC College Algebra

Grade level: 11-12

Credit: 1.0

Prerequisite: Algebra I, Geometry, Algebra II and a 3.5 GPA or an ACT Math score of 22 to enroll

Topics include a review of basic algebra; various functions and their graphs, including polynomial, rational, exponential, and logarithmic functions; and an introduction to analytic geometry. The course includes systems of equations and inequalities. First semester is a Southern Boone course and is

taught by a Southern Boone instructor (this is NOT a dual credit class during the first semester). The second semester is the actual dual credit course taken online through MACC with an MACC instructor. Neither semester has a weighted grade. **Students are responsible for meeting MACC's enrollment requirements, fees, and textbook(s).**

AP Calculus

Grade level: 11-12

Credit: 1.0

Prerequisite: Math Analysis

***Weighted Course**

Advanced Placement Calculus AB is designed to be the equivalent of a first semester college calculus course. This course will develop and expose the students to the traditional calculus topics of analytic geometry, differentiation and integration. There will be an emphasis on applications in the real world as well as the development of calculus skills. Students who are pursuing a career in mathematics, engineering fields, software development, and the Medical Sciences fields are specially advised to take this course. The College Board AP Calc exam is administered at the end of the course. The test is optional. College credit is awarded based on score. [Click here for more information.](#) **Students are responsible for fees.**

****Science****

Physics 9

Grade level: 9 (required)

Credit: 1.0

Physics 9 is an introductory course to physics, astronomy, and Earth-science. The course outlines concepts in heat, electricity, motion, forces, energy, and astronomy. Students are given opportunities to investigate by conducting experiments and collaborating with peers.

Biology

Grade level: 10 (required)

Credit: 1.0.

Biology is an introductory course to give students a general understanding of the organization of living systems at different scales. The course explores the topics of cell structure and function, metabolism, genetics, natural selection, and ecology.

PLTW Introduction to Engineering Design

Grade level: 9-12

Credit: 1.0.

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software, and use an engineering notebook to document their work.

PLTW Introduction to Engineering Design II

Grade level: 10-12

Credit: 1.0.

Prerequisite: PLTW Introduction to Engineering Design I

We will continue the PLTW I program where we left off last year. Expect independent work and service engineering design projects to balance our progress through mypltw.org. Continued use of Fusion 360 and engineering notebooks will be added to occasionally acting as resource leaders to the co-current PLTW I class.

Ecology

Grade level: 9-12

Credit: 0.5

This is a one-semester introduction to how living organisms function and interact in nature. The course includes a discussion of all the factors that influence the distribution and abundance of organisms. We examine both biotic (living) and abiotic (nonliving) elements of the environment that influence the behavior and evolution of populations as they encounter competition and struggle to survive. Population, community, and ecosystem level ecology are explored.

Environmental Science

Grade level: 9-12

Credit: 0.5

Prerequisite: Ecology

This is a one-semester interdisciplinary course that explores the complex relationships between humans and ecosystems. Biology, chemistry, social science, and environmental ethics will be

introduced to illuminate contemporary environmental issues. The course will facilitate critical thinking about the proper relationship between humans and the natural world, while providing an introduction to the field of environmental studies.

Chemistry I

Grade level: 11-12; 10 with teacher recommendation

Credit: 1.0

Prerequisite: Algebra I grade of B or higher

Chemistry I introduces basic chemical terminology and processes. It emphasizes the periodic table, stoichiometry, chemical reactions, light, nuclear chemistry, atomic structure, percent composition, chemical bonding, balancing equations, electron configuration and energy transformations.

Forensics I

Grade level: 11-12

Credit: 0.5

Prerequisite: 3 science credits or concurrent with 3rd credit.

Forensic science is the use of scientific principles and technologies in the investigation of crimes. Students will learn about the science of fingerprints, DNA, hairs and fibers, blood spatter, and other forms of evidence. Labs and activities will revolve around investigations of mock crime scenes and collection and analysis of evidence. General principles of crime scene investigation will also be covered.

Forensics II

Grade level: 11-12

Credit: 0.5

Prerequisite: Forensics I

In this second semester course, students will continue the study of how science is used to solve crimes. Topics of study include criminal profiling, skeleton analysis, entomology, toxicology, and criminal rights. There is a capstone project in which students act as crime scene investigators who identify, analyze and interpret evidence from a mock crime scene. Students then collaborate with Street Law students to conduct a "Day in Court" during which they act as experts in forensic science.

AP Biology

Grade level: 11-12

Credit: 1.0

Strongly Recommended: Physics 9 and Biology grades of B or higher

***Weighted Course**

AP Biology is equivalent to an introductory college biology course taken by students majoring in a biological science. AP Biology differs from regular high school biology in that the content will be covered in more depth and greater expectations will be placed on interpretation and analysis of information than previous biology courses. In addition, statistical analysis of data and modeling of concepts will be expected. A significant amount of studying must be completed at home to allow time for discussion, labs, and inquiry during class time. Students who are genuinely interested in pursuing a career in the biological sciences or medical fields are especially advised to take this course. AP Biology provides students a significant advantage in college by allowing them to acquire the foundation in concepts and skills prerequisite to many college biological science courses. The College Board AP Bio exam is administered at the end of the course. The test is optional. College credit is awarded based on score. [Click here for more information.](#) **Students are responsible for fees.**

Human Anatomy

Grade level: 11-12

Credit: 1.0

Prerequisite: Strongly Recommended: Physics 9 and Biology grades of B or higher

This course is designed to provide each student with an understanding and appreciation of the vast diversity of the human body at a college level. The areas covered will include, medical terminology, cell and tissue structure and function, and the 11 systems of the human body: integumentary, skeletal, muscular, nervous, endocrine, circulatory, lymphatic, digestive, respiratory, urinary, and reproductive. Laboratory work will be required, including dissections.

****Social Studies****

Ancient Civilization

Grade level: 9

Credit: 0.5

This semester-long course covers Early Civilizations to the start of the Middle Ages. Students will engage in learning the people, places, events, time periods, economics, and social aspects that occur during these periods in history and how they are interrelated. This course will cover the following topics: Early Civilizations (including Mesopotamia, the Minoans, and Egypt), Ancient Greece, Ancient Rome, Ancient India, the Silk Road, and Ancient China, Ancient Africa, and Mesoamerica. Attention is placed on myths and legends, comparative social and governmental systems, and the development of world religions and philosophies.

Western Civilization

Grade level: 10 (required)

Credit: 1.0

Western Civilization is a year-long course that serves as a broad survey of history from the period of the Renaissance to modern times. . Students will engage in learning geographic areas, with special focus in Europe and how these areas interacted over the centuries. Units of study will include: The Renaissance & Reformation, Exploration & Expansion, Enlightenment & Age of Reason, Revolutions, Industrial Revolution, Imperialism, World War I, Rise of Dictators, World War II, and the Cold War.

American History

Grade level: 11 (required)

Credit: 1.0

This course covers the time after the Civil War to the present day. Units included are: Reconstruction, Imperialism, Progressivism, World War I, the 1920's, the Great Depression, World War II, the Cold War, Korean War, Vietnam War, and the decades of the 1950's, 60's, 70's, 80's, and 90's. For these units we will be learning the political, economic, and social aspects of the era.

DC American History

Grade level: 11 (can replace Am. History)

Credit: 1.0

***Weighted Course**

This course covers the history of America from before the arrival of the Europeans to the present. In fall semester students learn about topics such as Indigenous American cultures, colonial society, the development of slavery in America, the French and Indian War, Revolutionary War, and other events leading to the creation of the United States, the solidification of ideas and values of American democracy, social changes, immigration, and the divide in America created by slavery. In the spring students discuss the end of slavery and Reconstruction and the continuation of a divided society through the Civil Rights Movement, the Industrial Revolution and the social and legal changes it leads to in American society, and identify the cause and effect of important twentieth-century events such as the Great Depression and world wars. Students will also learn about post-war political, social, and economic changes to American society up through, and including, 9/11. Can be taken for college credit through Moberly Area Community College for a total of 6 college credits. Course numbers at MACC are HST105 and HST106. **Students are responsible for fees and textbook(s).**

American Government

Grade level: 12 (required)

Credit: 0.5

This course covers all aspects of the Federal and State Government systems. An exam on the Federal and State governance systems will be required. Successful completion of the exam and course will satisfy the State and district Social Studies requirement for government/civics. Other topics will include current issues, economics and law related studies.

Street Law

Grade level: 10-12

Credit: 0.5

Street Law covers general scenarios in the law related areas of criminal and juvenile justice torts, and consumer, family and individual rights. The intention of this course is to give students a practical view on law. The curriculum includes case studies, mock trials, role playing, small group exercises, and visual analysis activities.

Psychology

Grade level: 10-12

Credit: 0.5

This is an introductory psychology class. Topics covered in this course include: biopsychology, states of mind, psychological development, sensation and perception, learning, cognitive processes, motivation and emotion, personality, and psychological disorders. The curriculum includes case studies, role playing, small group exercises, and visual analysis activities.

Current Events

Grade level: 10-12

Credit: 0.5

Current events will focus on current event analysis. Students will look at historical causation, today's news and media bias, basic geographical and cultural norms, and different worldview arguments to better understand the global context of our lives. The end goal of this course is to begin the process of thinking strategically about major issues and start developing solutions.

Vikings

Grade level: 10-12

Credit: 0.5

This is a semester-long elective course on the history and culture of the Vikings. The course will focus on the unique characteristics of Viking culture, including warfare, colonization, and the roles of men and women in society, and the impact of the Vikings on the history of Europe, Asia, and North America. The Vikings course will introduce students to Norse Mythology and how it, and Viking culture, are used today in movies, comics, and video games. Assignments include analysis of the use of Viking mythology in *Thor: Ragnarok* and the creation of a children's book, short film, or creative project that is inspired by the students' understanding of Viking history and society. The objectives of this course are to engage in discussion and critical thinking about a pre-modern culture and to gain an understanding of how history plays a role in popular culture today.

Minority History of America / American Stories

Grade level: 10-12

Credit: 0.5

Minority History of America is a semester-long elective course on the history of the United States from the viewpoint of people who have often been excluded from the traditional story of America. In particular, the course will focus on what everyday people, writers, musicians, photographers and filmmakers, poets, and politicians, had and have to say about American History. Students will approach American history from the perspective of African Americans, Latinix, Native Americans, Asian Americans, Women, LGBTQ individuals, and people with disabilities. The course will ask students to recognize their identities and understand how these identities influence their own history. They will then apply this understanding to looking at American history through the eyes of individuals with different backgrounds, beliefs, struggles, and achievements. The objective of this course is to provide students with the opportunity to view their society from many different viewpoints and gain both knowledge and empathy as they study the struggles and the joys of minority groups in American History.

History Through the Media

Grade level: 10-12

Credit: 0.5

This is an elective course to explore historical events and movements of the 20th century from the lens of various media outlets. This includes film, comic books, music, newspaper articles, political cartoons, artwork, speeches, etc. This provides students with alternative ways to investigate and analyze historical events and topics from U.S. and World History.

Military History

Grade level: 10-12

Credit: 0.5

This is a semester-long elective course that examines the role of military conflicts in both the ancient and modern world. The strategic, technological, cultural, and political influence of warfare on human history will be researched and analyzed. Students taking military history will sharpen their historical thinking skills, specifically through independent research projects.

****Foreign Language****

***Colleges recommend 2 years of the same FL; some four-year universities require it.**

****It is not required for High School graduation**

French I

Grade level: 9-12

Credit: 1.0

This course gives students a basic background in the French language. Students will become competent to communicate in the most common everyday situations orally and in writing. Lessons will be focused on everyday themes such as “Getting to know you,” “New classes, new friends,” “Family and home” and “Going shopping.” Students will learn French word order, communicating with whole phrases and sentences, and communicating actions in the present and future tenses. Students will learn vocabulary for numbers to 100, days of the week, seasons, months, classroom objects, telling time, weather and food. Students will explore French culture and geography. This course will provide a skill foundation for French II.

French II

Grade level: 10-12

Credit: 1.0

Prerequisite: French I, a grade of “C” or higher is recommended

French II represents the second half of developing basic French communication skills. After a brief review of French I grammar and vocabulary students will be more thoroughly competent to communicate in everyday situations. As in French I themes will be centered around everyday life such as “Traveling in France, by air and train,” “Summer Sports,” “Stores and Shopping” and “Everyday routines,” among others. These themes prepare students for possible real-life encounters with French-speaking people and situations. Students will be challenged to communicate orally and in writing in order to develop a higher level of proficiency in their communication skills. Students will be introduced to describing events in the past. Students will continue their exploration of the Francophone world and the French culture. This class is designed to give students the opportunity to continue their language studies in high school (French III) or on the college level. This course provides a review and skills foundation for the French III course.

French III

Grade level: 11-12

Credit: 1.0

Prerequisite: French II

This course focuses on adding to and refining skills acquired from French I and II. Daily lessons will focus on central themes including, “Sports,” “Winter and winter sports,” “Health and medicine,” “Cultural likes and dislikes” (vocabulary associated with films, museums, theater, etc.), “Traveling Abroad” (making reservations, checking into and out of hotels), and “Money and Banking.” These units will prepare students for real-life encounters with French-speaking people and situations. Students will focus on and demonstrate intermediate to advanced proficiency in writing and oral communication. Students will be able to narrate, discuss, give and receive information in various time frames, past, present and future. This course will include a monthly magazine review and will prepare students with the skills foundation for the French IV course and/or future college studies, careers, travels and other possible real-life situations.

French IV

Grade level: 12

Credit: 1.0

Prerequisite: French III

French IV will focus on adding to and refining oral and written communication skills. The themes covered will further prepare students for possible real-life situations with French-speaking people and situations. Students will demonstrate more advanced competency in talking about world issues and issues important to teens in various parts of the world. Focus will be on communication involving analyzing situations, expressing one's opinion, problem-solving and making recommendations. Students will be able to communicate in any time frame. This course will provide a foundation for a college level course in French, careers, travel and other real-life situations.

Spanish I

Grade level: 9-12

Credit: 1.0

This course provides students with an essential introduction to the Spanish language. Students will learn to communicate in common, everyday situations. Lessons are centered around day-to-day topics, such as meeting someone new, school and classroom, free time activities, sports, weather, shopping in the market and daily routines. Daily classroom activities focus on speaking, understanding, reading and writing in the target language. Students will learn high-frequency vocabulary and fundamental sentence structures that they will be able to use in familiar or rehearsed situations. Coursework also explores Spanish culture and geography. This course provides the necessary skills for success in Spanish II.

Spanish II

Grade level: 10-12

Credit: 1.0

Prerequisite: Spanish I

Spanish II represents the second half of developing basic Spanish communication skills. Students will become more thoroughly competent to communicate in the most common everyday situations. As in Spanish I, lessons will be centered around everyday themes such as the doctor's office, around the house, and locations in the city.. This will prepare students for possible real-life encounters with Spanish speaking people and situations. Students will learn to communicate in a wider variety of more challenging situations, and demonstrate intermediate proficiency in their communication. Students will narrate and discuss events that occurred in the past and move others to action through commands. They will increase their compositional skills by using sentences that contain multiple clauses and employ the use of different grammatical moods. This class will give students the opportunity and foundation to continue language studies in high school (Spanish III, Spanish IV), and on to the college level. This course will provide skills foundation for the Spanish III course.

Spanish III

Grade level: 11-12

Credit: 1.0

Prerequisite: Spanish II

Spanish III focuses on adding to and refining communication skills. Lessons will be centered around unit themes such as shopping, medicine and health, science and technology, and relationships. This orientation will prepare students for possible real-life encounters with Spanish speaking people and situations. Students will demonstrate intermediate to advanced proficiency in talking in/about these situations. Attention will be given to more advanced communication functions such as analyzing situations, problem solving and recommendations. Students will be able to narrate, discuss, give and

receive information in various time frames--past, present, and future. This course will provide skills foundation for the Spanish IV course, future college studies, careers, travels, and other real-life situations.

Spanish IV

Grade level: 12

Credit: 1.0

Prerequisite: Spanish III

Spanish IV focuses on refining Spanish communication skills in an academic environment. Lessons will be centered around literature unit themes such as women in literature, elements of fantasy, and religion among others. This thematic orientation will prepare students for success in Spanish in the post-secondary educational environment. Students will demonstrate more advanced competency in the four areas of communication regarding most common and challenging situations. Students will be able to communicate in any time frame. This course will provide skills foundation for college level courses in Spanish, careers, travels, and other real-life situations.

****Fine Arts****

Art Courses

***All art courses are Fine Arts courses**

Art I

Grade level: 9-12

Credit: 1.0

Art I is a beginning level art course designed to teach students basic art concepts and skills. Students will explore the history of art from ancient Egypt to Modern Art. Students will develop art skills and appreciation as they produce works of art in the style and media of each historical period. Students will identify and incorporate the elements and principles of design.

Art II

Grade level: 10-12

Credit: 1.0

Prerequisite: Art I

Art II will build on the knowledge gained in Art I (the six basic elements and principles of design through drawing, painting, sculpture and ceramics). This course will provide some art history but will mostly focus on contemporary art. Students will develop skills and personal style as they experiment with a variety of art media. They will reflect on concepts they have learned in written and verbal formats.

Sculpture

Grade level: 10-12

Credit: 0.5

Prerequisite: Art I

This course is an introduction to three-dimensional (3D) form and space. Students will work with a variety of building materials with an emphasis in clay. Ceramics focuses on hand-building and using surface decoration. They will create both sculptural objects and functional pieces and will be exposed to a variety of three-dimensional building techniques. Students will work with plaster and found objects.

Pottery

Grade level: 10-12

Credit: 0.5

Prerequisite: Art I

This course focuses on the fundamentals of hand-building with clay and use of the potter's wheel. Students will create sculptural objects and functional pieces. Students learn the technical processes involved in forming and firing within the context of historical and contemporary ceramics. Students will also engage in research as well as learn how to discuss artwork through the critique process.

Advanced Art

Grade level: 11-12

Credit: 1.0 (this course can be repeated)

Prerequisite: Two Years of Art including Art 1

Advanced Art is designed to build on the skills learned in previous art courses, plus challenge the artist to greater degrees of skill. Scheduling is flexible so students may take a full two years or just one semester, depending on their scheduling needs. Students will design their own projects based on a theme of their own choosing. Students will prepare for college as they assemble an electronic portfolio, exhibit in art shows, and discuss their art experiences in verbal and written formats.

Music Courses

***All music/band courses are Fine Arts courses**

Band

Grade level: 9-12

Credit: 1.0

Performance-oriented group. Advanced fundamentals will be taught including some theory and ear training. Students will be expected to participate in three to four competitions in the fall. The concert band season includes fall, winter and spring concerts, conference clinic and District Contest in the spring. Opportunities for small ensembles and solos at District contest are also a part of the band program. *For those participating in Fall Color Guard, you must take Band during first semester.

Jazz Band

Grade level: 9-12

Credit: 1.0

High School Jazz Band will focus on the continued development of concepts introduced in previous band levels with greater emphasis on improvisation and musical expressions. This is made intentionally small for chances to work with ensembles within the group, more singing and traveling performances and eventually a higher quality of literature/music to be performed. Students must audition for entry and size/balance is to director's discretion.

Jazz, Pop, & Rock

Grade level: 9-12

Credit: 0.5

Explore the history of modern popular music. We will look at over 100 years of music starting back before the guitar was electric. We will find out if video really killed the radio star, and if auto tuning is so wrong. What day did the music die? Extend your understanding of music, find some other things you like, and where it all came from. Find out the inspirations of the artists that have inspired you! Note: Some of the content will be controversial subject matter, since art oftentimes pushes limits of societal norms. Parental discretion is advised.

Movie Music

Grade level: 9-12

Credit: 0.5

How has music changed the way you watch movies and TV? Ever been watching Law and Order, and you already know someone was going to confess to a crime - by the music. Learn why movie music is so important to our view experience. Find out the history behind it. We will start back before movies had sound. We will explore theme music used by composers of films by Steven Spielberg, Alfred Hitchcock. We will look into the use of popular music, classical music, and jazz in film. Discover the sounds behind some of your favorite films. Note: Some of the content will be controversial subject matter, since art oftentimes pushes limits of societal norms. Parental discretion is advised.

Chamber Choir

Grade level: 9-12

Credit: 1.0

Students will focus on more intensive vocal studies. Students will be required to participate in Vocal Competitions in both semesters. More singing and traveling is required.

Modern Band (Formerly Pop Choir)

Grade level: 9-12

Credit: 1.0

This class will focus on performing popular music from all eras, and include students on instruments (Such as guitar, bass, drums, keys etc.) as well as singers. Students will sing and/or play in class, perform on assemblies, exams and concerts, and perform at activities such as basketball games.

Theater Tech: Set, Art & Props

Grade level: 9-12

Credit: 1.0

Students will learn the basics of theatrical production pertaining to set design and construction, Artistic Design, Creating and Procuring Props. Students will complete projects based on and in support of theatrical productions including High School and Middle School Musicals, Marching Band, Guard etc.

Theater Tech: Costumes, Hair & Makeup

Grade level: 9-12

Credit: 1.0

Students will learn the basics of theatrical production pertaining to, costumes, hair and make-up. Students will complete projects based on and in support of theatrical productions including High School and Middle School Musicals, Marching Band, Guard etc.

Musical Theater

Grade level: 9-12

Credit: 1.0

Focuses on learning theatrical basics such as the use of vocal speech, movement, singing and dancing for performance purposes. This class is responsible for putting on performances throughout the year.

Guitar Ensemble

Grade level: 9-12

Credit: 1.0

Students will learn guitar playing alone and together from a newly available curriculum. Our unique approach teaches our students vital fundamentals through songs they know and love, not rote memorization. Students are encouraged to provide their own instruments as guitar availability is limited.

Music Technology (Dual Credit through University of Central Missouri)

Grade level: 11-12

Credit: 1.0

Offered in conjunction with the University of Central Missouri, this course will focus on the use of audio engineering, equipment, and digital audio workstations.

****Health & Physical Education****

Health

Grade level: 9 (required)

Credit: 0.5

This is a semester course designed to provide students with specific information concerning several areas of life. Students are undergoing many changes in the physical, mental, and social realms. It is our goal to better help them understand the changes they are going through, how to deal with them, and how these changes will alter the patterns of their lives. Areas covered: bullying, suicide, relationships, drivers ed, substance abuse, sexuality, STD's, and nutrition.

Aerobics

Grade level: 9-12

Credit: 1.0

This class is designed to create opportunities for wellness and fitness for individuals who do not enjoy the sports setting. A variety of exercises will include yoga, kickboxing, zumba, and brisk walking.

Girls Team Sports

Grade level: 9-12

Credit: 1.0

This class is designed for female students interested in competitive team sports. This course will include daily skill instructions and implementation of those skills into a competitive game setting. It is strongly recommended that students enjoy competitive sports.

Boys Team Sports

Grade level: 9-12

Credit: 1.0

This class is designed for male students interested in competitive team sports. This course will include daily skill instructions and implementation of those skills into a competitive game setting. It is strongly recommended that students enjoy competitive sports.

General PE

Grade level: 9-12

Credit: 1.0

This class is designed for students interested in playing team sports in a less competitive way. This course will include daily instructions and implementation of those skills into a game setting.

Introduction to Sports Officiating

Grade level: 10-12

Credit: 1.0

This class is designed to teach and develop students into becoming sports officials. It will include comprehensive officiating education and interactive training videos. Sports that will be covered include basketball, football, flag football, volleyball, soccer, baseball/softball, and wrestling. **Course offering tentative - dependant on student interest and staff availability.**

Weight Training

Grade level: 9-12

Credit: 1.0

This course is designed to provide students with an opportunity to develop fitness through weight training, plyometrics, core strengthening, speed, agility, and flexibility training. Students will be educated in proper lifting techniques, safety factors, and muscle development. This class will include performance testing as well as lifting assessments and improvement is expected.

****Practical Arts****

Family & Consumer Science Courses

***All family & consumer science courses are practical arts courses**

Interior Design and Decorating

Grade level: 9-12

Credit: 0.5

Interior Design and Decorating teaches the relationship of art principles to the design of the home and its furnishings. Attention will be given to architectural and furniture styles as well as physical, psychological and social influences on housing needs and choices. Explore career options for expressing creativity through designing floor plans, decorating interiors and try your hand at designing living space for a variety of purposes. This course is recommended for all students who will someday own, rent, or be responsible for a house or apartment. It is especially recommended for the student considering a career in housing, architecture, real estate or interior design.

Child Development

Grade level: 9-12

Credit: 0.5

From parenting readiness, through pregnancy and childbirth, to learning about the ages and stages of development, we will participate in class discussions, projects, activities and more. Students will participate in a "Real Care Baby" project that will reinforce the level of commitment, involvement and responsibility of caring for a newborn.

Advanced Child Development

Grade level: 9-12

Credit: 0.5

Prerequisite: Child Development

This course will better prepare students to participate in high quality care for their own children and/or other children in their care and to enhance the quality of life for children as parents and caregivers. Advanced Child Development will enable students to a) construct meaning pertinent to child care, guidance and supervision; b) interact effectively with children; c) solve problems based upon children's health concerns at various developmental stages; d) assess the impact of quality child care on the child, family and society; e) make decisions that support ethics and professionalism in child development careers.

Textiles for Living I

Grade level: 9-12

Credit: 0.5

This course covers basic skills needed in sewing and clothing care. Attention will be given to working with fabrics, the use of equipment, patterns, sewing machines, and basic hand sewing. At least four projects will be completed. This course is recommended for all students considering a career in Fashion Merchandising, Fashion Design, retail clothing sales or any other clothing-related field. **Cost to the student includes sewing supplies, patterns, fabric and notions.**

Textiles for Living II

Grade level: 9-12

Credit: 0.5

Prerequisite: Textiles for Living I

Textiles for Living II gives the student an opportunity to develop advanced skills in sewing and garment construction. The student will construct projects with a higher degree of difficulty than in Textiles for Living I. This course is recommended for all students considering a career in Fashion Merchandising, Fashion Design, retail clothing sales, or any other clothing-related field. **Cost to the student includes sewing supplies, patterns, fabric and notions.**

Advanced Textiles

Grade level: 10-12

Credit: 1.0

Prerequisite: Textiles for Living II

Advanced Textiles gives the student an opportunity to further their skills in sewing and garment construction. The student will construct projects with a higher degree of difficulty than in Textiles for Living II. This course can be taken for an entire year or just one semester. **Cost to the student includes sewing supplies, patterns, fabric and notions.**

Introduction to Foods

Grade level: 9-12

Credit: 0.5

Introduction to Foods offers the opportunity to explore why we eat the way we eat, examine the influences on our food choices and to become familiar with recommended eating patterns in America. Introduction to Foods also offers basic food prep skills attainment through a variety of lab experiences, promoting selections of foods across MyPlate and exposure to multiple techniques.. Students in Introduction to Foods will sharpen skills in technical reading (recipes) and cooperative work skills (group labs). This course is offered on an alternating year basis. **It WILL be offered in 2024-25.**

Culinary Skills

Grade level: 9-12

Credit: 0.5

Culinary Skills class is designed to expose students to types of food prep skills that may be expected in entry level jobs as well as give them a chance to experience the kinds of recipes and work that can become a home-based business. Topics will include: baking fundamentals, food presentation, cake decorating and careers in food service. No prerequisite. This course is offered on an alternating year basis. **It WILL be offered in 2024-25.**

World Foods

Grade level: 9-12

Credit: 0.5

The purpose of the World Foods course is to enable students to make nutritious food choices, to develop culinary skills, and to better understand the cultures, customs, and lifestyles of individuals and families from various regions throughout the world. No prerequisite. This course is offered on an alternating year basis. **It WILL NOT be offered in 2024-25.**

Americana Foods

Grade level: 9-12

Credit: 0.5

A study will be made of our American heritage of foods and factors influencing our eating habits. The cuisines of the following regions will be explored: New England, Mid-Atlantic, Midwest, South, Southwest, Pacific Northwest, and the Great Lakes. Students will prepare foods from each of the regions. No prerequisite. This course is offered on an alternating year basis. **It WILL NOT be offered in 2024-25.**

Family Leadership

Grade level: 9-12

Credit: 0.5

This course offers leadership building activities designed to increase personal understanding of self as it applies to family and career success. This class will incorporate opportunities to improve communication, family dynamics and career readiness. Creating a better understanding of the balancing of family and work responsibilities and exploring the benefits of community involvement is a focus.

Agricultural Education

***All agricultural courses are considered practical arts courses**

***To participate in FFA you must have an agriculture education class**

***Taking three Ag Science courses can count for the third science graduation requirement. Yet, be cautioned that some colleges/universities may not honor this so you will want to check admission requirements for those colleges. (We do know that the University of Missouri will honor this as the third science but check other colleges and specific degree programs to be sure).**

Introduction to Agricultural (AFNR)

Grade level: 9

Credit: 1.0

The purpose of introductory agriculture is to introduce students to current topics in the agricultural industry and careers in agriculture, FFA, Supervised Agricultural Experiences(SAE) and Animal/Veterinary Science topics. Throughout the course you will experience —hands-on activities, projects, and field trips. This course includes instruction in leadership development and record keeping. Students enrolled in this course are strongly encouraged to join the Ashland FFA.

Agriculture Science II - Plant Science

Grade level: 10-12

Credit: 1.0

Prerequisite: AFNR; second year agriculture students

Agriculture Science II-Plant Science (Prerequisite:10th grade). This course is designed as an introductory course to plant science and horticulture. Areas of study include soils, hydroponics, plant anatomy and physiology, landscaping, greenhouse production, insects and diseases, and plant marketing. You will receive hands-on experience through projects and labs in the classroom, greenhouse and high garden site. Students enrolled in this course are strongly encouraged to join the Ashland FFA. All students enrolled will learn about Supervised Agricultural Experience (SAE) and record keeping.

Ag Science II- Mechanics

Grade level: 10-12

Credit: 1.0

Prerequisite: 10th grade

This course will deal with the development of skills in the shop and classroom. Students will construct at least two agriculture related projects using power tools and develop basic arc welding skills. Fifty percent of this course will involve the above-mentioned shop skills and project construction while fifty percent will be in class instruction with guest speakers and industrial workers coming in to work with the students. Areas of study will include welding, structures, carpentry, power tools, safety, metallurgy, and careers.

Animal/Veterinary Science

Grade level: 11-12

Credit: 1.0

Interested in learning about animals in detail this is the class for you. The major focus of Animal Science is for you to gain experiences in topics such as veterinary science tools and terminology, and uses of livestock, handling and safety, anatomy,nutrition, reproduction, genetics and health with hands-on activities, projects, and problems. You can choose to study dogs, cats, horses, cattle, goats,

sheep, swine and any other domesticated livestock that interest you. This course includes instruction in leadership development and record keeping. Students enrolled in this course are strongly encouraged to join the Ashland FFA. All students enrolled will learn about Supervised Agricultural Experience (SAE) and record keeping. **This course may be taken for Dual Credit second semester through University of Central Missouri. Students are responsible for fees and work through Mrs. Hammett.**

Food Science and Safety

Grade level: 11-12

Credit: 0.5

If you are interested in a class with many hands-on activities, projects related to the food industry you will enjoy this course. This course includes study in the areas of food product development, marketing, food packaging and labeling, evaluation of foods, food microbiology, food processing, principles of sanitation and quality control. This course includes instruction in leadership development and record keeping. Students enrolled in this course are strongly encouraged to join the Ashland FFA. All students enrolled will learn about Supervised Agricultural Experience (SAE) and record keeping.

Greenhouse Management and Plant Production

Grade level: 11-12

Credit: 0.5

This course develops a basic understanding of greenhouse techniques. The production of greenhouse crops will be used to demonstrate procedures such as plants started from cuttings, seeds, grafts, and layering. Students will manage their own crop as a greenhouse project. You will work in teams, exploring hands-on projects and activities, If you like to spend time outside landscaping and gardening as well as time in a greenhouse this is a class for you! Members of this class will help in growing and marketing for our yearly plant sale. All students enrolled will learn about Supervised Agricultural Experience (SAE) and record keeping. This course can be taken multiple years.

Agriculture Leadership

Grade level: 11-12

Credit: 1.0

This course will develop students' leadership and employability skills. This course will enhance personal development and communication skills. Students will complete scholarships and college applications as well as study principles of agriculture communication and public speaking. Students enrolled in this course are strongly encouraged to take advantage of the many personal opportunities and benefits offered by joining the Ashland FFA. All students enrolled will learn about Supervised Agricultural Experience (SAE) and record keeping. *This course can also be taken to earn an embedded 0.5 credit of personal finance. It must be taken two consecutive semesters in the same academic year and the appropriate assessments must be taken..* Priority enrollment will be given to fourth year Ag students.

Supervised Agriculture Experience Cooperative

Grade level: 12

Credit: 1.0-2.0

Prerequisite: Co-enrollment with another Ag course

Seniors will be allowed to work 1-2 periods of the school day at a job site. Students must be co-enrolled in another agriculture class to be in SAE Co-op. The contract sets forth specific requirements such as attendance and grades, etc. The credit awarded for on the job training should be 1 unit per school year

for each 10 hours of employment per week. No more than 2 credits may be awarded for on the job training during a school year.

Agriculture Construction and Welding I and II

Grade level: 11-12

Credit: 1.0-2.0

Students will advance the basic welding skills developed in Ag. Science II. Further exploration on tools, shop safety, CNC operation, project planning and construction will be a focus. Students will vary from guided projects to self-determined and community provided projects in both wood and metal material building. This course is approximately 75% shop work. This course includes instruction in leadership development and record keeping.

Ag Structures

Grade level: 11-12

Credit: 0.5

This course is a fall semester class that will introduce the knowledge and skills for applying the physical science principles of operation and maintenance to surveying, concrete, structural carpentry, plumbing, electrical wiring and fencing. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Students will be assessed on the construction of a wood and/or metal structure project during this course.

Ag Machinery and Small Gas Engines

Grade level: 11-12

Credit: 0.5

This course is a spring semester class that provides entry level training in the fundamentals of safe operation, servicing, repairing, calibrating and adjusting agriculture machinery and small gas engines. An overview of the career opportunities available in the field will be explored in addition to shop safety and basic tools. Students will disassemble and rebuild two-stroke and four-stroke engines.

Business and Computers

***All Business and Computers courses are considered practical arts courses**

Personal Finance

Grade level: 12 (required)

Credit: 0.5

Personal Finance is a class designed for seniors concentrating on teaching students about money management that includes, budgeting, payroll, credit, savings & investing, career planning and retirement. Students will gain the knowledge to be able to make smart financial decisions both individually and when they have a family. Personal Finance gives students the real world skills that will begin immediately after graduation, if not before. ***This class can be taken for dual credit through Missouri State University. Students are responsible for fees.**

Computer Science Principles

Grade level: 10-12

Credit: 1.0

Computer Science Principles is a full-year, entry-level course that introduces high school students to the foundations of coding & modern computing. This course covers a broad range of foundational topics such as programming, algorithms, the Internet, big data, digital privacy, and security, and the societal impacts of computing.

Yearbook

Grade level: 11-12

Credit: 1.0

Prerequisite: an application process that involves letters of recommendation the spring semester prior to the next year in order to enroll in the course

The more simulated real-world business experience that students encounter in high school the more they are prepared for the workforce. The yearbook class offers a simulated business environment in which they can play an active role. As a member of the yearbook staff, students play a role in the completion of an end product publication, where each student is responsible for individual parts.

Business Tech

Grade level: 12

Credit: 1.0

This course is designed to enhance work skills that students are receiving at their jobs. The course is designed to help prepare students to succeed in the world of work as students and adults. This course must coincide with Supervised Business Experience (SBE).

Supervised Business Experience

Grade level: 12

Credit: 1.0-2.0

Prerequisite: Must be co-enrolled in Business Tech

Seniors will be allowed to work 1-2 periods a day at a job site. Students will have to take the business technology class and sign a contract along with their parents. The contract sets forth specific requirements such as attendance, grades, etc. For each credit of SBE students must work 10 hours per week.

Computer Applications

Grade level: 9-12

Credit: 1.0

This course is designed to help students master beginning and advanced skills in Microsoft Office for Microsoft Word & Excel. Keyboarding shortcuts & proofreader marks will be taught & used for the first semester as well as parts of the computer, Internet eEtiquette, cyberbullying and Internet safety for both semesters. Second semester students will master skills in Microsoft Publisher & PowerPoint. Both semesters will focus on speed and accuracy in the area of keyboarding, along with proper typing technique.

Multimedia I

Grade level: 10-12

Credit: 0.5

This course is designed to develop electronic presentations and videos, as well as manipulate text, graphics, audio, and photography. To do this students will use, but are not limited to, PowerPoint, Movie Maker, Audacity, Adobe Premiere Pro.

Multimedia II

Grade level: 10-12

Credit: 0.5

Prerequisite: Multimedia I

Students will continue the study of electronic presentations and videos they started in Multimedia I. Subjects will include green screens, broadcasts, and sports commentating. This class will serve the student body by creating periodic school news video updates.

Web Design

Grade level: 10-12

Credit: 0.5

This course teaches Internet skills and techniques and has a major emphasis on Web page design. Students will explore the resources of the Internet and its tools through research. HTML and Web publishing software will be used to create, format, illustrate design and Web pages. This class focuses on web page planning, basic design, layout and construction, and setup and maintenance of a web site. HTML, Dreamweaver, and various other web page and image creation tools are taught in the course.

Entrepreneurship

Grade level: 10-12

Credit: 0.5

Students will learn the background knowledge necessary to start and successfully operate a business. Topics will include marketing, supply and demand, business plans, sales and finance.

Sports Media & Entertainment Marketing

Grade level: 11-12

Credit: 1.0

Build your marketing experience by applying concepts and components involved in marketing and operating sports and entertainment events. Through project-based learning and hands-on experience, students are able to explore the full marketing cycle in relation to sports and entertainment. This includes creating content and video board assets for school stadium activities as well as running the video board during games. **Course offering tentative - dependant on student interest and staff availability.*

Accounting

Grade level: 11-12

Credit: 1.0

This course is a study of the basic principles, concepts, and procedures involved in double entry accounting. Record keeping for a service business, merchandising business, partnership, and corporations are presented. This course is meant for students who plan to attend college and major or minor in a business field, those who will be entering the job market in an office related field, those who plan to operate their own business, or for those who want a basic background for bookkeeping. Must have a B or above in Algebra 1 and above.

****Special Courses****

A+ Mentoring

Grade level: 12

Credit: 0.5

Students will participate in an educational field experience in the Primary, Elementary, and Middle School buildings. This class will be supervised by the A+ coordinator and corresponding teacher. This course will allow the opportunity A+ students to gain the necessary 50 mentoring hours to meet A+ Requirements during their school day. Eligible seniors may take the class to complete A+ requirements or to provide service to our school. The class is taken for Pass/Fail credit. A mentoring contract with expectations will be signed before students are put into the classroom. If terms are violated, students may be removed from the mentoring experience mid-semester. Students must be currently on track to be eligible for A+. [See requirements here.](#)

At Risk Study Skills

Grade level: 9-12

Credit: 1.0

Students who have shown a pattern of struggling in school may be placed in a study skills class. A committee of teachers, administrators and counselors will meet each semester to determine which students have a need for a study skills class.

Office Aide

Grade level: 12

Credit: No credit, a volunteer opportunity

This is an opportunity to work in a voluntary capacity in one of the offices in the school. Students must inquire and receive approval from the administrator in charge of the office. Responsibilities may include running passes, delivering materials, providing tours of the building, or other tasks as needed.

Note: Most days students will have time to study and work on homework as well.

Library Aide

Grade level: 11-12

Credit: No credit, a volunteer opportunity

This is an opportunity to work in a voluntary capacity in the library. Students will assist the Library Media Specialist with the following tasks: cleaning; shelving books, magazines, and other materials; preparing books for cataloging; helping students, faculty, and staff find books and materials. Students who apply should have the ability to relate to students, faculty, and staff in a positive manner, and possess excellent problem-solving skills. The ability to self-direct and help where and when needed is also important. **Students must fill out an application and gain the Library Media Specialist approval.**

Online Dual Credit

Grade level: 11-12

Credit: .5 for high school credit and 3-4 college credits

You must have at least a 3.0 GPA to enroll, several classes require higher GPAs

Each semester Moberly Area Community College offers a variety of dual credit classes online. The counseling office will have a list of available classes when they become available (for each semester offerings). Go to <http://www.macc.edu/programs/course-descriptions> for information on each course. Students are responsible for fees and textbook(s).

Taking your first dual credit course through MACC?

You must apply to MACC (Moberly Area Community College) to become a dual credit student! When applying, do NOT use your school email address and please apply during your high school registration time the semester prior to starting the dual credit course. Once you receive your 6 digit student ID number, please email this number to your school counselor. Apply here: [MACC Dual Credit Application](#)

You will make payments to MACC once the actual course begins. You will use the MACC portal (my.macc.edu), you will have access to this site once your enrollment has been accepted.

Nichols Career Center 2024-2025

The career and technical education (CTE) programs at Nichols Career Center provide students with the opportunity to gain skills necessary for gainful employment. Graduates of these programs are able to utilize this education to directly enter the workforce, pursue advanced technical or military training, or continue their training at the post-secondary level.

CTE programs are only available to juniors or seniors who have been selected through a competitive application process coordinated by the NCC Student Services Coordinator. This process requires a program tour and submitting an application. Because most CTE programs are two-year programs, the application process generally favors incoming juniors, although incoming seniors are welcome to apply (the exception is the Health Sciences program, which is exclusive to seniors). A review of the applicant's academic/attendance/discipline records, sending counselor evaluation, and career pathway serve as the basis for selection.

Dual Credit & Articulated Credit

There are several opportunities for students to earn dual or articulated credit while enrolled in one of the CTE programs. Current offerings include, but are not limited to: State Technical College of Missouri, State Fair Community College, Ozark Technical Community College, Missouri State, and East Central Community College. A comprehensive list is posted on the NCC website. Enrollment for this credit is coordinated by the NCC Student Services Coordinator.

Industry Recognized Credential (IRC)

Most CTE programs provide students with the opportunity to earn an IRC. This credential generally serves as evidence that the student has demonstrated competency in specific skills required by various businesses and industry. Students who earn an IRC generally command better employment opportunities or wages when entering the workforce. The assessments for IRC's are provided to students when they have completed the required curriculum, which is typically during the second year of study.

Internships

Several CTE programs offer internships for second year students in their final semester of study. Students are required to maintain the following: attendance of 95% or better, minimum 2.5 GPA, an excellent behavior record, be in good standing with your high school, and be recommended by their program instructor. Students who are approved transport themselves to their internship site and attend internship in lieu of class time.

Technical Math – Embedded Math

Grade level: 11-12

Credit: 0.5 (for full year)

Corequisite: All CTE students are enrolled in this course

This course presents informational methods of contextual mathematical instruction directly related to the corresponding 3-block CTE program. Students will review pre-existing concepts and learn new concepts that are specific to their chosen trade. Relevant mathematics will prepare students for higher education or provide them with the knowledge necessary to enter directly into a trade. Students will complete various assignments including but not limited to projects and problem-solving activities. Additionally, students will practice standardized assessment questions relating to the ACT or other post-secondary entrance exams.

Technical English – Embedded English

Grade level: 11-12

Credit: 0.5 (for full year)

Corequisite: All CTE students are enrolled in this course

This course strives to improve and expand students' reading, writing, speaking, and listening skills through practice relevant to their CTE programs. Students will be encouraged to choose topics related to their specific programs when conducting research and presenting information. Special emphasis will be placed on speaking and presentation skills, especially the job interview experience. Students will complete a minimum of one research and presentation project per term with additional work assigned at the program instructor's discretion.

Collision Repair Technology I and II

Grade level: 11-12

Credit: 3.0 for 2 years

Auto Collision Technology is a two-year course of study that focuses on the fundamentals of collision repair including safety, auto glass, part replacement, cutting metal, plastic repair, welding, straightening body panels, masking, refinishing, and detailing. The industry-developed curriculum (I-CAR) alternates annually with one year focusing on non- structural repair work while the subsequent year introduces refinishing concepts. IRC: I-CAR Non-Structural/Refinishing. Internship Available

Automotive Technology I and II

Grade level: 11-12

Credit: 3.0 for 2 years

Automotive Technology is an ASE (Automotive Service Excellence) certified two-year course of study that focuses on automotive repair and diagnosis. The curriculum is delivered through a combination of computer-based modules and shop work. The course of study alternates annually with one year focusing on engine performance and braking systems while the subsequent year introduces steering/suspension and electrical/electronic systems. IRC: ASE Student Level Certification. Internship Available

Social Media & Content Development

Grade level: 11-12

Credit: 3.0

Prerequisite: Journalistic Writing OR strong communication skills (verbal, written) as evidenced by proficient writing skills in all high school English classes.

This program of study will focus on occupations related to social media management, social media technology, analytics and creating digital media in the form of social media posts, stories, podcasts, livestreams and maintaining a simulated social media presence. Participants in this course should have a strong interest in journalistic writing or becoming a Social Media Manager, Specialist, or Content Developer utilizing a variety of social media platforms to promote businesses, sports teams, and entertainment industries. In the second year of this program students will have the opportunity to participate in an internship managing content for actual clients in their communities. Internship Available

Building Trades I and II

Grade level: 11-12

Credit: 3.0g

Building Trades is a two-year course of study that prepares students for various occupations within the construction industry. This program partners annually with the River City Chapter of Habitat for Humanity to construct a home in the Jefferson City area. Students travel off-campus for this project.

The first year introduces safety, hand and power tools, plans, specification and codes, footing and foundations, concrete placing and finishing, floor/wall/ceiling/roof framing, roofing, windows and exterior doors, exterior wall finishing, interior doors and trim, painting, staining, and finishing. Second year students advance those skills through higher level tasks on the jobsite. Internship Available. IRC: Career Connections Additional Certification: OSHA 10

Computer Technology I and II

Grade level: 11-12

Credit: 3.0

Prerequisite: C or better in Algebra I or higher level math

Computer Technology is a two-year course of study that prepares students for a variety of occupations within the computer science/information technology field. The program of study alternates annually with one year specializing in coding websites and computer programs using Java programming language and markup languages (HTML, DHTML, and JavaScript). The subsequent year focuses on the design, construction, maintenance, repair, networking, and administration of computers/computer systems. Dual Credit Available. IRC: Test Out (Pro PC)

Cosmetology I

Grade level: 11-12

Credit: 3.0

This course is for students who wish to pursue a career in the field of Cosmetology. Cosmetology consists of haircutting, hair coloring, shampooing, styling, arranging hair, manicures, pedicures, hair removal, scalp treatments, chemical texture services (perms and relaxers), disinfection procedures and many other services. Students are required to have a specific amount of hours in each of the subjects required by the MO State Board of Cosmetology and Barber Examiners. Once a student has acquired 160 hours they will be allowed to work on actual clients in the salon. The Cosmetology school is open to the public, therefore clients will come to the school to have students perform service. IRC: Licensure through the Missouri Board of Cosmetology and Barbering. Clinical Experience Available

Culinary Arts I and II

Grade level: 11-12

Credit: 3.0

Prerequisite: Show proficiency in Foods I

Culinary Arts is a two-year American Culinary Federation accredited program that prepares students for a variety of occupations in the hospitality and food service industries. First year students learn food preparation, sanitation and safety, nutrition, basic baking, dining room service, menu planning, purchasing, receiving, inventory, storage, human relations, garde manger, sustainability, and nutrition in an industry standard kitchen. Students have the opportunity to showcase these skills through several catering events within the school and community. Second year students continue to advance their competencies in food preparation, sanitation and safety, nutrition, basic baking. Dual Credit Available IRC: ACF Certified Fundamentals Cook Additional Certification: ServSafe Food Protection Manager

Early Childhood Professions I

Grades 11-12

Credits: 3.0 for 1 year

This course provides students with the primary knowledge and skills needed for a future career in childcare or early childhood education. Students have the opportunity to complete their practicum hours, child development associate training, and course work in an early childhood setting under the guidance and supervision of a certified CTE instructor and early childhood educators. Early Childhood

Professions instructional time encompasses three high school class periods per day, five days a week. Students will use reflective writing and discussion to process and learn from experiences in the field. Students will be required to spend at least 120 hours of child development/early childhood education in class training + 480 hours of experience working directly with children over two years. 3 Dual Credit Available IRC: Child Development Associate (CDA) Certification Clinical Experience Available

Early Childhood Professions II

Grades 11-12

Credits: 3.0 for 1 year

Prerequisite: Early Childhood Professions I This course will provide a more in depth look into the knowledge and skills needed for a future career in childcare or early childhood education. The course will expand upon the standards and learning objectives outlined in Early Childhood Professions I while also helping students prepare for their experience working directly with children in a clinical setting. Students will be required to develop and deliver curriculum, create a daily schedule with routines and transitions, identify children with special needs, and complete the CDA child development portfolio requirements under the guidance and supervision of a certified CTE instructor and early childhood educators. Early Childhood Professions instructional time encompasses three high school class periods per day, five days a week. Students will use reflective writing and discussion to process and learn from experiences in the field. Students will be required to spend at least 120 hours of child development/early childhood education in class training + 480 hours of experience working directly with children over two years. Dual Credit Available IRC: Child Development Associate (CDA) Certification Clinical Experience Available

Graphic Design I and II (with AP 2-D Design Portfolio Option*)

Grade level: 11-12

Credit: 3.0 for 2 years

Prerequisite: Show proficiency in Introduction to Art, OR Desktop Publishing, OR Digital Photography. Recommended: Strong communication skills (verbal, written) as evidenced by proficient writing skills in all high school English classes. Any experience creating two-dimensional art and design work, in or out of the classroom, will be helpful.

This is a two-year program that introduces students to the graphic design and advertising industry. Students study industry-leading Adobe Creative Cloud software through a series of in-class modules and design activities. They learn about design thinking, typography, page layout, composition, color theory, branding, digital illustration, digital workflow, professional workplace skills, and printing methods. Second-year students strengthen their skills through more in-depth problem solving and real-world, client-based design projects. In the final semester of the program, second-year students participate in an industry internship and/or the AP 2-D Design Portfolio/Senior Capstone Portfolio. The AP (Advanced Placement) 2-D Design Portfolio is a program administered by the College Board to provide highly motivated students an opportunity to earn college credit with a 2-D art and design focus. IRC: Adobe Certified Professional in Visual Design AP Portfolio Available (Graphic Design II students only) Dual Credit Available Internship Available *Sending schools determine if there is weighted credit for AP and how that credit will be weighted. See your school counselor for more information.

Health Sciences

Grade level: 12

Credit: 3.0 credits for this 1 year program

Health Sciences is a one-year course of study that introduces students to a variety of career opportunities within the healthcare field while focusing on required skills to become a Certified Patient Care Technician (PCT). The fall semester introduces medical terminology, anatomy and physiology,

patient care skills, regulatory compliance and safety, critical thinking, and infection control. In order to advance these skills, students who meet the clinical requirements for the program are required to transport themselves daily to clinical settings at various medical facilities during the spring semester
Dual and Articulated Credit Available IRC: Patient Care Technician (PCT)

Heating, Air Conditioning and Refrigeration I and II

Grade level: 11-12

Credit: 3.0 for 2 years

This two-year course of study introduces students to the fundamentals of the heating and cooling industry. The first year includes instruction of the basics of refrigeration, installation and service, troubleshooting of residential air conditioners and furnaces, sheet metal fabrication, and wiring of house and control circuits. The second year provides students with advanced troubleshooting and problem-solving skills for all types of furnaces and air conditioners, in addition to fundamentals of commercial refrigeration/air conditioners/furnaces, and advanced sheet metal fabrication. Stackable Credentials: EPA 608 Universal Certification and OSHA 10. Internship Available

Mechatronics I and II

Grade level: 11-12

Credit: 3.0 for 2 years

Prerequisite: Show proficiency in Algebra I or higher-level math

This two-year course of study prepares students for several occupations within the engineering field such as systems, mechanical, electrical, telecommunications, control, and computer engineering. First year students use knowledge of electronic components, soldering, and microchip design to construct, troubleshoot, and repair integrated circuits, robots, computers, car audio equipment, and telecommunications devices. Students also utilize AutoCAD design software to create various 3D printer projects and industrial programmable logic controllers to manipulate pneumatic powered equipment/control circuits. Second year students continue various projects within these topics while advancing their design, troubleshooting, and maintenance skills. Articulated Credit Available Additional Certifications Available: OSHA 10 IRC: ETA EM-1

Welding I and II

Grade level: 11-12

Credit: 3.0 for 2 years

Welding is a two-year AWS (American Welding Society) approved course of study that includes instruction in gas, stick, MIG, oxyacetylene and plasma cutting processes using mild steel, stainless steel, and aluminum metals. The first year of study focuses on the preparation of metal for welding and correct application of welding rods, welding techniques, safety requirements, layout/cutting techniques, and welding terminology. The second year emphasizes advanced project-based learning, and additional skill development of arc/MIG/TIG welding, and weld testing. IRC: AWS SENSE Certification Additional Certification Available: OSHA 10